

the
CARRIER
of
Mount
Diablo
Amateur
Radio
Club



ARRL SPECIAL SERVICE CLUB

Volume XLI - Issue 10 - October 1994

Editor - Greydon H. Hicks, KC6SLE

Distribution: Jay Caldis, KT6Y, Walt Ebbett, KB6QIB,
and George Jones, KI6YK

The opinions expressed in the Carrier are solely those of the author and do not necessarily reflect the opinions of either the Board of Directors or membership of MDARC unless the author is a member of the MDARC Board of Directors and is speaking in an official capacity.

FROM THE PRESIDENT

Dick Schulze, AA6DL.

This is the month of PACIFICON '94. While we have a lot of other things going on in the club, this event will dominate all others. Planning for this event began even before we finished PACIFICON '93 and got rolling in earnest in January under the Chairmanship of DICK BROWN, KT6X. The others at the head table are JOHN McKENZIE, KD6QEC, vice-chair, JAY CALDIS, KT6Y, treasurer, and PAUL PARKER, WB6DHH, secretary. It is risky to mention any names, though, because success of this event is the result of the thousands of hours of work by a great number of people. These are the unsung heroes some of whom we hardly know of and particularly the extent of their efforts. We do have some members who work tirelessly without any recognition. A special thanks to these volunteers.

It has been a great pleasure seeing the PACIFICON Committee with all of the supporting committees in operation. The whole operation runs with the efficiency of a well run and profitable business venture and there is a consistent enthusiasm. We have also had the support of many other clubs and unaffiliated HAMS. We owe them a thanks also.

Our September auction was another success, thanks to the efforts of DENNIS FULLER, KC6QHH, and his committee. All of the equipment was sold and due to some donated items the club made a nice profit.

Don't forget our Christmas party will be held on Wednesday, December 14, 1994, at ZIO FRAEDO'S restaurant in Pleasant Hill.

SEE YOU AT PACIFICON '94!

ELECTION OF 1995 OFFICERS

The Nominating Committee, Consisting of TOM SEABURY, KC6SYG, GEORGE JONES, KI6YK, and JIM TITTLE, KC6SOE, reports that the following persons have asked to run for the offices indicated:

President: LAUREN STYLES, WA6CIE, and LARRY GANSZ, KB2GV.

Vice President: JOHN STUART, KM6QX.

Secretary: RICHARD SHAPPEE, WA5HQJ.

Treasurer: FRANK WILLIAMS, WA6NSC.

Director: MARY-JANE WALKER, N6NVA, and RAY GASCHK, KD6BLS.

Emergency Coordinator: SAM LIPSON, KE6BPB.

Nominations will also be accepted from the floor at the October 14 General Membership meeting. Ballots will be mailed with the November Carrier and will be counted at the November meeting.

YOUTH NET FOR YOUNG HAMS

John Stuart, KM6QX

The new Youth Net has begun meeting every Thursday at 7:00 PM on the 147.060 repeater. This net gives our young HAMSs an opportunity to exercise their radio skills, make new friends, and discuss topics of their choice. The net has a round-robin format, giving everyone a chance to say a few words, ask questions, and get to know each other on the air.

A REMINDER!

The October MDARC meeting will be held on the **SECOND** Friday of the month, not the third. The meeting will be on **OCTOBER 14**. PACIFICON '94 starts on **OCTOBER 21**, the third Friday. Mark your calendar NOW!!

PUBLIC SERVICE EVENTS

RADIO OPERATOR RIDES METRIC CENTURY

Dick Schulze, AA6DL

We were asked to assist on the first annual Metric Century Bicycle ride sponsored by Diablo Cyclists, a local bicycle club. The ride started at Northgate High School in Walnut Creek, thence over Mt. Diablo to Danville, Livermore and back to Walnut Creek via Dublin, Danville, Alamo and Pleasant Hill. There were three hundred sixty bicyclists in the event.

As usual we had support from other clubs including Livermore ARC. One of our volunteers, MARTY GOODMAN, KC6YKC, from San Pablo, a bicycle rider, thought it would be fun to be a bicycle sweep. He took off at 7 AM all bedecked with boom mike and extra batteries up Diablo, keeping in contact with net control, RICHARD SHAPPEE, WA5HQJ, assisted by DICK SCHULZE, AA6DL. During the ride a group of five, including Marty, decided, with the consent of the race director, to make an extra loop through Livermore making the ride 100 miles, not 100 kilometers. The group finished just after 5 PM. which is about 10 mph including lunch and water stops. It's quite a burden to talk on a radio while riding only a short distance, let alone 100 miles.

A total of 10 operators agreed to work this event and as usual all showed up on time and with batteries charged and equipment in order. It is a pleasure to work with such a well prepared group. The other participants were: JOE GREGORY, WA6DQN, JOHN STUART, KM6QX, JIM SHELEY, KA6DXY, MARK GALBRAITH, NE5IH, GEORGE WHITE, WA6MFO, DREW HANSON, KD6GLY, and LARRY BEVIER, KD6ZMH. Communications were through the linked system of Contra Costa Repeater Association which provided good coverage throughout the entire course including Livermore.

DEL VALLE TRAIL RIDE

Terry Dearborn, W6HPC

On Saturday, August 27, 1994, six MDARC members served as radio operators for the AHA trail ride at Del Valle Regional Park. They were Terry Dearborn (W6HPC), Dick Liniger (KE6CEU), Craig Schirato (KE6DEA), Nick Schirato (KE6DIA), Jim Sheley (KA6DXY) and John Stuart (KM6QX).

There were no injuries (to humans or horses) but there were two happenings familiar to most trail ride operators. Rita and the Vet decided to "pull" two horses at the end of the lunch break. Craig and the horse "ambulance" were parked at the dam and out of sight of the horses gathered along the edge of Heron Bay. The two riders had to walk their horses at least a quarter of a mile up a road towards an unseen ambulance. Craig drove in his 4WD from the dam towards horses he couldn't see. When they could see each other, he lead them back to the trailer.

Often times riders miss trail markers and pass by check points and are later reported as "missing". By the power of HAM RADIO Rita, the ride director was transported back

along the trail and verbally chastised the short-cut-taker. He had to go back down the hill and come up the correct route adding much time to his "performance".

In the category of the unusual are two offerings. Terry was in a water ski boat that was transporting Rita from the dock to the lunch stop / vet check at Heron bay. On the return trip the Park Ranger patrol boat stopped them for having too many passengers. There were 12 in the boat which was licensed for 1200 pounds. Luckily they were not ticketed but the boat did have to return to the muddy shores of Heron Bay were two "under 25 type people" waded ashore to be returned to camp by Craig.

Rita, the ride director must have be clairvoyant when she borrowed a Park Ranger Radio for John to carry with him. At about 1400, while Terry was stuffing himself with excellent "munchies" at the camp, he was distracted by shouting coming from the garbage dumpster. Yes... it was on fire and there were "horse people" trying to quell the flames with broken hoses. Terry called John who called the Ranger who called the Fire Engine. After the fire-persons discarded their first hose (it leaked) they were able to bring the fire under control. They also had a chance to practice the use of back-pack breathing apparatus necessary because of possible toxic fumes.

FALL TRAILRIDE A SUCCESS

Joe Gregory, WA6DQN

Four MDARC members provided radio communications for the Fall Las Trampas Endurance TRAIL RIDE on Saturday September 17. This event included both 50 mile and 25 mile routes in Redwood and Anthony Chabot Regional Parks in the Oakland Hills. One hundred and thirty five horses and riders started; 10 dropped out from the ride either because of lameness or the rider's decision.

The morning was foggy and cold at the first checkpoint at the Redwood Bowl on top of the Oakland Hills ridge. Rain dripped from the trees. Larry Bevier, KD6ZMH, saw the horses through this spot, waited an hour for a horse trailer to appear and transport the first casualty, and then moved to the ride camp in Bort Meadow until mid afternoon. Afternoon was sunny and quite warm.

Terry Dearborn, W6HPC, set up a J-Pole in the shade at Marciel Gate and reported progress and problems from the third Vet Check point until the last riders past. A fourth checkpoint at the Grass Valley Road staging area was monitored by Larry Miller, KD6ZUJ, and his XYL, Joe Gregory, WA6DQN, rode with the Ride Director most of the day, later stayed at the base camp in Bort Meadow until the last checkpoint had closed.

There were no serious injuries or calls for help, and the event was enjoyed by all. Our efforts were appreciated by the ride organizers and riders, who repeatedly expressed their thanks for our efforts.

SILENT KEY

Olof Fredriksson, KC6SEJ

Tom Request, N6SKS, died May 16, 1994 of lymphoma, a cancer which attacks the lymph cells and glands.

Tom received his Novice and Advanced Amateur Radio license in 1988.

With his home-brewed 10-meter antenna, he made numerous domestic and worldwide contacts, including all 50 states, over 150 countries, and most, if not all, of the 47 administrative districts and 200 cities of Japan.

A number of radio pals from Japan visited Tom's home in Moraga. During various trips through Europe, Tom visited several European HAMs as well.

A framed letter from KB5IXU in Baton Rouge dated June 15, 1989, illustrates Tom at his best. It begins: "Dear Tom, I want you to know that I gratefully appreciate the care you demonstrated during and subsequent of my first 10-meter contact with you on April 18, 1989. The QSL card that you attached to a specially prepared confirmation letter, was a very special means to affirm the joy that I had at that moment. I have placed the letter in an attractive frame and in a position so that it is the first visible item seen when entering my radio room... Hopefully this letter will reveal how deeply I have been touched by your caring attitude."

A Japanese HAM friend of Tom's has requested and been given permission to notify the Japanese Amateur Radio Association, the equivalent of QST, of Tom's departure.

Tom was a member of the International DX Association, the Rag Chewer's Club and the ARRL.

Our heartfelt sympathies go out to Tom's family; wife Lois, sons Tony and Philip, and daughter-in-law, Carrie. Tom will be missed by his many HAM friends here and abroad.

Phone Hours: 9:30 AM to 5:30 PM
Store Walk-In Hours:
10:00 AM to 5:30 PM Closed Sundays

ANAHEIM, CA 92801
933 N. Euclid St.
(714) 533-7373
(800) 854-6046
Janet, WA7WMB
Near Disneyland

OAKLAND, CA 94606
2210 Livingston St.
(510) 534-5757
(800) 854-6046
Rich, WA7WYS, Mgr.
-800 at 23rd Ave. ramp

SAN DIEGO, CA 92123
5375 Kearny Villa Rd.
(619) 560-4900
(800) 854-6046
Tom, K8M6K, Mgr.
Hwy. 163 &
Claremont Mesa

SUNNYVALE, CA 94086
510 Lawrence Expwy. #102
(408) 736-9496
(800) 854-6046
Tom, K8ALUC, Mgr.
Lawrence Expwy.
So. from Hwy. 101

VAN NUYS, CA 91411
6265 Sepulveda Blvd.
(818) 988-2212
(800) 854-6046
Jon, K86ZBI, Mgr.
San Diego Frey
at Victory Blvd.

NEW STORE!
NEW CASTLE, DE 19720
1509 N. Dupont Hwy.
(302) 322-7092
(800) 844-4476
Jim, K3QHO, Mgr.
RT 13 1/4 mi. So. I-295

Bob Ferrero, W6RJ, President/Owner

AZ, CA, CO, GA, VA residents add sales tax
Prices, specifications, descriptions, subject
to change without notice

PORTLAND, OR 97223
11705 S.W. Pacific Hwy.
(503) 598-0555
(800) 854-6046
Earl, KE7BA, Mgr.
Tigard-99W exit
from Hwy. 5 & 217

DENVER, CO 80231
8400 E. Iliff Ave., #9
(303) 745-7373
(800) 444-9476
Joe, KD8GA, Mgr.

PHOENIX, AZ 85015
1702 W. Camelback Rd.
(602) 242-3515
(800) 444-9476
Gary, W8TSLY, Mgr.
East of Highway 17

ATLANTA, GA 30340
6071 Buford Highway
(404) 263-0700
(800) 444-7827
Mark, K4JVO, Mgr.
Doraville 1 mi.
no. of I-285

WOODBURGE, VA 22191
Washington D.C. area
14803 Build America Dr.
(703) 643-1063
(800) 444-4799
Curtis, WB4KZL, Mgr.
Exit 54, I-95, South to US 1

SALEM, NH 03079
Boston, MA area
224 N. Broadway
(603) 898-3750
(800) 444-0647
Chuck, K8AKZ, Mgr.
Exit 1, I-93
28 mi. No. of Boston

OAKLAND, CA 94606
2210 Livingston St.
(510) 534-5757
(800) 854-6046
SUNNYVALE, CA 94086
510 Lawrence Expwy. #102
(408) 736-9496
(800) 854-6046

FLASH! NOW 12-STORE BUYING POWER!



ICOM
HANDHELS

IC-91A
2M/440/1.2 Tri-Band
IC-W21AT/IC-W21AT
2M/440 2M/220
IC-2ELAT, 2M
IC-721A, 2M

ICOM
IC-737A
HF Transceiver

12V 100W variable Aut. Tuner
Built-in Gen. Conv. RX, 101 Memory, VOX
DSB, CSS, Push-to-Talk

Priced So Low, We Can't Print It!
Call For Your Low Discount Price!

KENWOOD
TS-50S/TS-60S
HF Transceiver

TS-60S - World's smallest HF Transceiver
100W out. (20W TS-50S, Mobile only)
DSB, CSS, Aut. Tun.
12V Gen. Conv. RX, 6.4 Sec. 7.16 x 2.4 x 3.32"
100W dynamic range, 100 Memory
Opt. ext. ant. tuners available (TS-60S only)
CALL NOW FOR OUR LOW PRICING!

KENWOOD
HANDHELS

TH-78A
2M/440/1.2
2.7W 2M, 2W 440
SW Optional
CTCSS Built-in
82 Memory
DTMF Memory
Built-in CTCSS Enc./Dec.
User-Friendly Menu Sys.
CALL NOW FOR BETTER SPECIAL!

TH-22AT
Ultra Compact
2M HT, SW opt.
40 Memory
Emergency Built-in
CALL NOW!

YAESU
HANDHELS

FT-630
2M/440/1.2
2W Standard, SW opt.
82 Memory, Dual in-band RX
DTMF paging - coded Sel. int.
Built-in VOX & CTCSS
Auto tone search
Built-in clock - Backlit Keyboard
SPECIAL PRICING!

YAESU
FT-890
HF Transceiver

100W HF Gen. Conv. Transceiver
DSB, CSS - 500W CW Filter Included
CALL FOR OUR LOW PRICE!

ALINCO
DJ-580T
2M/440 Dual Band

40 Memory Channels
DSO, Dual Display
CTCSS Enc./Dec. Built-in
Cross Band Full Duplex

CALL FOR SPECIAL LOW PRICE

ALINCO
DR-600T
2M/440 FM Transceiver

40W/20W - Airband RX
Detachable/Removable Head
Keyboard Pres. entry from microphone!
CALL FOR OUR SPECIAL PRICE!

MORE PUBLIC SERVICE

HEKATON AGAIN!

On Sunday, September 4th, over 800 bicycle riders embarked on one of several courses ranging from 25 to 100 hilly miles comprising the 23rd annual Hekaton Bicycle Classic. It was a beautiful, sunny and warm day and somehow 361 miles of bike routes were covered by the riders without a single mishap of significance.

How was this accomplished? Well, good planning and lots of luck helped a lot. But one essential ingredient was the communication network which kept event officials in constant contact with the check and meal stops, and the sag vehicles on the course who looked after the riders and their bikes. It was this ability to quickly meet the needs of the riders, coordinate shuttling riders who had to drop out and coordinate the activities of the event workers that allowed this year's event to proceed so smoothly and safely.

As in past years, communications for the Hekaton was organized and staffed by members of Livermore RACES and LARK, and South CoCo RACES and MDARC providing another opportunity for these Hams to rub elbows with their neighbors from adjacent counties.

The communications network mentioned above consisted of a net control and helper, 7 Hams at six check points/meal stops, 12 Hams in sag vehicles, 2 Ham biker-participants, and a sag director and 5 sag vehicles armed with cellular phones. Keeping track of this vast array of operators scattered over good portions of Alameda and Contra Costa Counties was no small task but was made possible with the use of the Contra Costa Repeater Association's linked WA6HAM 2M repeaters. By having each operator select the repeater that allowed him to communicate most effectively, only rarely were there times when an operator was without immediate access to net control and the other operators no matter their location.

It seems all who had a chance to observe this net in operation were impressed with the professionalism and skill of the operators. Some did not receive their assignments until the day of the Hekaton and others responded to last minute changes and even cancellations with mature cooperation. The Livermore operators were particularly impressive and reliable. And there were many examples of operators who stayed beyond their assigned times to take on additional communications and sweep responsibilities when the need arose. The users of the CCRA repeater system were remarkable in their courtesy and cooperation with the Hekaton net, which tied the system up for most of the day. It seems Amateur Radio got another boost at this year's Hekaton!

Accolades got to Hams George, K16YK; John, N6OPL; Cliff, KK6SJ; Larry, KD6ZMH; Walt, KB6QIB; Jim, KA6DXY; Lyle, KB6DOW; Bruce, KC6JMN; Dick, KT6X; Dick, AA6DL; Drew, KD6GLY; John, KD6ZMP; John, KM6QH; Terry, W6HPC; Eliot, WA6PYH; Jerry, KK6WB; Ray, N6RBY; Nick, KE6GDJ; Dick, AB6TJ; John, W6JKH; and SWL, Lillian. Biker Hams who helped out were Bob, KC6TVE; and Frank, AA6ZI.

Thanks to you all for your selfless help. It was very much appreciated by the Valley Spokesmen, the sponsoring organization, and especially by the biker-participants. "And all we got was this lousy T-shirt..."

-George Jones, K16YK-

IS IT REALLY A 'CRISIS'?

"In the final analysis, combatting and eliminating stress must begin with the individual gaining perspective.

"So many people take themselves so seriously. They think everything is life-threatening, so they create a crisis environment in which to work — maybe because it makes them feel important, or it makes them feel alive.

"After having practiced medicine and dealt with life and death situations for many years, I know what a crisis is, and I know what a crisis is not. And 99.9% of the stuff that goes on in our lives is *not* a crisis.

"At the end of the day, put everything back into your desk, lock it up, go home, and forget about it.

"Believe it or not, it will still be there the next day." □

—Hazel Shorter, MD

“There is no such thing as a ‘sudden’ heart attack. It requires years of preparation.”

MEMBERSHIP DIRECTORY UPDATE

by George Jones, KI6YK

MDARC is delighted to welcome the following new members:

ALLEY, Charles J. (Chuck); KD6RLW, Technician
2376 Wayfarer Dr., Discovery Bay, CA 94514
(510)634-1241(h), (510)634-0980(w)

BERRY, Jim; KE6IZP, Technician
166 Arends Dr., Danville, CA 94506

BERRY, Joshua (Josh); KE6IZQ, Technician
166 Arends Dr., Danville, CA 94506

BLUME, William T.; KE6DZA, Technician
201 State Street, San Mateo, CA 94401
(415)348-5530(h)

BROWN, Zane; N6FCI, Advanced
427 Lisa Ann St., Pittsburg, CA 94565
(510)458-4017(h), (510)246-3155(w)

BURKE, Thomas; KE6KEL, General
5046 Bonwell Drive, Concord, CA 94521
(510)687-3941(h)

BUTLER, Jack H.; AC6EE, Extra
2036 Silverlake Way, Martinez, CA 94553
(510)686-1264(h)

FULLAGAR, Neil; Technician license pending
401 Maitland Drive, Alameda, CA 94502
(510)865-8058(h), (510)748-8036(w)

LOZADA, Rene C.; KE6KYT, Technician
1830 Del Rio Dr., Lafayette, CA 94549
(510)256-4459(h)

THORBROGGER, W., Jr; KE6LWZ, Technician
(510)932-2552(h)

TIDD, Bob; KJ6CS, Advanced
2161 Alice Ave., Walnut Creek, CA 94596
(510)932-5015(h)

ZURLO, Bernard A. (Bernie); N6PBB, Technician
900 Beach Drive, Rio Vista, CA 94571
(510)602-9848(h), (707)374-2871(w)

Congratulations to the following on their upgrade and/or new call:

Sam Lipson: Advanced
Dan Young: Technician, KE6KER

Please note the change of address for **John Weir**: 117 S. Lincoln St., Redlands, CA 92374. John writes: "I miss the club and its activities. Will miss PACIFICON. Hope I can work it on the air in October. This town has over 200 Hams but no club".

We are saddened to learn of the death of club member John Williams, KD6KHC, of Orinda, this past May. All who knew him will remember him as an enthusiastic, relatively new Ham. This silent key will be sorely missed.

HOW DOES ONE JOIN MDARC?

There are many ways, but they all involve completing a Membership Form and sending it to the Membership Chairman with your dues. Information about the club, including membership, can be obtained at the club table at PACIFICON '94, or from the Membership Chairman at club meetings or by writing him at P.O. Box 23222, Pleasant Hill, CA 94526. And he or any club officer (listed here in the Carrier) will be glad to talk to you about MDARC by phone.

THE BASE STATION**Your Contra Costa Ham Radio Headquarters**

A.E.A. Interfaces, T.N.C.'s & Antennas
Ameco Books, Code Keys & Oscillators
Amphenol Coax Connectors
Astron Regulated Power Supplies
A.R.R.L. License Manuals, Books, Tapes
and Reference Guides
Avant/Antenna Specialists "On Glass" Antennas
A.O.R. Ace Scanning Receivers
Bencher Paddles
B. & W. Antennas, Coax Switches & Accessories
Bearcat/Uniden Scanners
Butternut Antennas

Callbooks, Maps, Guides & Supplements
Carol/Columbia Coax Cable
Cushcraft VHF & UHF Antennas
Hustler Mobile Antennas, Mounts & Brackets
Gordon West Books and Code Practice Tapes
Larsen V.H.F. & U.H.F. Mobile Antennas & Mounts
M.F.J. Keyers, Tuners, T.N.C.'s, Switches & Access.
Mirage V.H.F. & U.H.F. Amplifiers
Wm. Nye Code Keys & Oscillators
P.C. Electronics Amateur TV Converters & Xmtrs.
Van Gordon Antennas, Insulators & Wire
Yaesu H.F., V.H.F. & U.H.F. Transceivers & Acces.

Antenna Masts
Guy Wire
Wire Clamps
Mast Bases
Egg Insulators
Dog Bone Insulators
Center Insulators

Copper Wire
Bakura
Magnetic Antenna Bases
Trunk Mounts
Ball Mounts
Gutter Mounts
Code Practice Oscillators

Code Practice Software
S.W.R. Meters
Ground Rods
Coax Patch Cords
Mix Plugs & Connectors
PL-259's, & N Connectors
Headphones

Flexible Rubber Antennas
Scanner Frequency Books
Scanner Antennas
Radio Publications, Inc.
Radio Handbooks
Frequency Spectrum Charts
Operating Manuals

1830 East Street
Concord, CA 94520
(510) 685-7388

Mon-Fri: 10-5:30 Sat: 9-4

In Downtown Concord between Willow Pass Rd. & Concord Blvd.



MEETING MINUTES**MOUNT DIABLO AMATEUR RADIO CLUB**

Meeting Minutes, September 16, 1994

Richard M. Shappee, WA5HQJ,
Secretary, MDARC

The Club's regular September Auction was held in lieu of the usual meeting. The starting gavel was dropped at 7:05. Auctioneer Dennis, KC6QHH, reminded the members of the rules. At 8:00 PM a brief business meeting was held and the auction resumed shortly thereafter.

MDARC BOARD OF DIRECTOR'S MEETING

Meeting Minutes, September 19, 1994

Richard M. Shappee, WA5HQJ,
Secretary, MDARC

The MDARC Board of Directors held its regular monthly meeting on September 19, 1994, hosted by Membership Chairman George, KI6YK. The meeting was called to order by President Dick, AA6DL, at 7:30 PM. The minutes of the previous meeting were approved as published in the CARRIER.

George Roush, WB6OFH, was a visitor to the meeting. His interest related to the forthcoming Christmas Party. He reminded the group that we should be sure to emphasize that the party will be held on Wednesday, not Friday and that we need to advise the church that we will not be using their facilities that month. A discussion was held concerning the number of awards (6 or 7), finding someone to play Santa Clause, song sheets if there is to be singing, the major door prize provided by HRO and the other prizes to be coordinated between those who have bought prizes throughout the year, the advisability of asking people to wear their name badges and the printing of dinner tickets. Action items were assigned for most of these elements of the party.

A discussion was held concerning door prizes at our regular meetings. It was the opinion of the group that we may have over budgeted our income from the sale of tickets. It was suggested and agreed to that we should undertake an effort to sell more tickets at the meetings and that we be guided by our experience in future budgets.

Membership Chairman George, KI6YK, advised that we had 570 members and that 6 members this year had become silent keys.

The treasurer's report was given by Treasurer Stan, WU6P. He said that we had 64 buyers at the auction, there were 100 bid numbers assigned and 135 items sold. Our gross income was about \$3124. Final tabulations of our profit are still underway. While discussing the capital program, and recognizing that we are currently disbursing from these funds by virtue of our scholarship program, it became apparent that the various members of the board were not of one mind as to where we stood financially and what we could afford to do. President Dick asked Treasurer Stan to make a projection of our financial picture to the end of the year so that the director's might be armed with better information before making any decisions.

Attendance at our HAM classes has been a little disappointing. As of the first meeting, we had 8 or 9 novice/tech, 6 general, and 2 advanced/extra students. It was thought that there might be a few more since the first meeting. We have had lots of calls regarding the classes but a poor turn out. The reasons are not clear why this should be the case.

The status of the Sunday night Tech net was brought up. It appears that the net may have dissolved. President Dick agreed to make some inquiries to find what we should do in this regard.

The Nominating Committee has not yet found a candidate for President. One candidate running for another position was asked to consider running for President and he said he would do so. Several names of possible candidates were brought up and Secretary Richard agreed to make a few calls to persons that might be urged to become involved.

The meeting adjourned at 9:38 and was followed by host George, KI6YK, providing refreshments.

Rocky Ridge Repeater Group

Regular Meeting, September 21, 1994

Kent Barham, KD6JAC,
RRRG Secretary,

Held at the Stonebrook Convalescent Center in Concord, Chairman Dwane McGlothlin, N6SPX, called the meeting to order at 8:00 PM. First business, minutes from the July meeting were approved as published in the Carrier.

Treasure Norma Davis, N6EJZ, presented the treasurer report. She stated a bank balance of \$ 8,062.38 with all bills paid. There is \$ 800.00 committed to club approved projects. Dwane stated, if the committed funds are not spent by the first of the year, those who solicited them are welcome to resubmit a motion for their project. The objective is to start the new year with a clean slate.

Dwane spoke on the matter of repeater phone patch costs. Though there is no widespread abuse, he did point out that the club pays for a basic measured business line. This is metered from the Danville area at a set cost of \$ 28.00 per month, plus message units. A member pointed out, that he has heard from members who think the phone calls are free. Dwane explained that the message units are calculated on a per minute rate, based on the number dialed. Pac Bell employee Rube Moulton, K6RCW, agreed to look into the matter and perhaps find alternatives to the present situation.

Dick Tomsik, KJ6YE, reported on PACIFICON '94 ticket sales.

John Stuart, KM6QX, updated the group on the recently organized 2 meter 'Youth Net'. John also talked about future MDARC meetings and their speakers.

Richard Shappee, WA5HQJ, reported on T-Hunts and the clubs' dopplers. On the dopplers, he hopes to have them all in position by mid next year. He stated there is still work and decisions to be made before then.

Jay Caldis, KT6Y, explained the workings of APRS and GPS. He also spoke on proper autodial and emergency 911 use.

Dick Schulze, AA6DL, reported on PACIFICON '94.

Dick also mentioned that Tom Seabury is the MDARC nominating committee Chairman. Dick said Tom is seeking nominees for various MDARC officer positions.

Five people applied for RRRG membership. At 8:46 PM, a motion was made and approved, to accept the following as new members. Barry Hosier, KE6GQI, Daniel Goemmel, KE6IEP, Rube Moulton, K6RCW, Willard Thorbroger Jr., KE6LWZ, and Bernard Zurlo, N6PBB.

Attendance for this meeting was 32, and we adjourned at 8:50 PM.



Your Invitation To The Mount Diablo Amateur Radio Club Christmas Party

When: Wednesday December 14, 1994

Where: Zio Fraedo's Restaurant

701 Gregory Lane, Pleasant Hill

What Time: No host cocktails 6:00 PM

Served Dinner 7:00 PM

How Much: \$10.00 for members and immediate
family (husband, wife, kids)

Entree: Your choice, turkey or ham, hors d'oeuvres,
soup, salad, relish tray, potatoes, vegetables,
bread and dessert.

Door prizes, entertainment, fun, Santa's visit.



YES! I will attend the MDARC Christmas Party

Your Name _____ Call Sign _____
Street _____ City _____ ZIP _____

Note: This Christmas Party is intended for YOU and your IMMEDIATE family. The Club is underwriting part of the cost and it is unfair to include people who are not really part of your immediate family. Immediate family means spouse and children, not uncles, aunts, grandfathers, neighbors, casual acquaintances, etc.

Number of Turkey Dinners _____ X \$10.00 = _____
Number of Ham Dinners _____ X \$10.00 = _____
Total included \$ _____

Mail or give to:

George Roush, WB6OFH, 2116 Athene Drive, Concord CA 94519

Bearings, Azimuths, Angles

The ham community frequently deals with geographic problems which require the reading of compass headings for various purposes of locating Foxes, Jammers, Distant Countries, and the like. Sometimes confusion has been manifest over the air when we are giving direction information to fellow hams. There are hobbyists whose prime interest, called ORIENTEERING, is just this, with clubs located throughout the country. I would suggest that those interested find them out and visit them or their activities. In the mean time, you might want to know some terminology, and a few simple, useful calculations. Here is some useful Vocabulary:

- AZIMUTH:** A number, between 0 and 360, referring to a compass heading. 0 and 360 refer to North, 90 refers to East, 180, refers to South, 270 refers to West. No Adjectives are used when using azimuths, it is just a pure number.
- BEARING:** A combination of two words and a Number. The first word is always either North or South, the Number is always between 0 and 90, and the second word is always either West or East. Example North 85 degrees East, is a Direction that is almost straight East. South 30 degrees West is as it says. North 100 degrees West, is improper usage, and that direction is more correctly described as South 80 degrees West.
- DEGREE:** A fractional measure of a circle. One Degree is 1/360 of a circle.
- MINUTE:** A fractional degree, (1/60 degree). Also, 60 seconds.
- SECOND:** A fractional Minute, (1/60 minute; 1/3600 degree.)
- GRADS:** A European measure of angle; 400 to a circle.
- MILS:** A military unit of angle Measure, 1000 mils to a circle.
- True North:** The axis of rotation of the earth; 90 degrees Latitude, Points to the North Star. The approximate alignment of streets in Seaside and Carmel

Magnetic North: Where a Compass Needle points to; Currently located near Cornwallis Island, Canada

Magnetic Declination: The difference between True and Magnetic North. Currently, in Monterey, California, Magnetic North is 15. degrees East of True North.

Magnetic Variation: A slow drift in Declination, currently in Monterey, about - 2 minutes/year.

Useful Measures:

1 Second of Arc:

- At 1 mile: ~ = 1/8"
At 10 miles: ~ = 3.07"

1 Minute of Arc:

- At 1 mile ~ = 1.535 ft.
At 10 miles ~ = 15.36 ft.

1 Degree of Arc:

- At 1 mile ~ = 92.15 ft.
At 10 miles ~ = 921.5 ft.

10 Degrees of Arc:

- At 1 mile ~ = 916.9 ft.
At 10 miles ~ = 9,168.6 ft.

Latitude-Longitude

1 Degree of Latitude: 60 nautical Miles

1 Minute of Latitude: 1 Nautical Mile
1.15 Statute Miles

1 Minute of Longitude
(@ 37 deg Latitude) ~ = 4849ft.

Latitude, Longitude of some Local Points:

Monterey Airport Tower:	Lat: N 36 35 22 Lon: W 121 50 58
K6LY Repeater, Huckleberry Hill	Lat: N 36 35 10 Lon: W 121 35 16

MDARC/RRRG QUAKE-NET INSTRUCTIONS

Immediately after feeling an earthquake, listen to 147.060/(100 pl).

When frequency is clear, quickly and clearly transmit in the following sequence::

LOCATION, OBSERVATION, NAME and CALL SIGN.

If a Hospital or ARES/RACES net control is established, relinquish use of repeater and break only with urgent traffic using your CALL SIGN and LOCATION or CITY

**The Mount Diablo Amateur
Radio Club**

P.O. Box 23222
Pleasant Hill, CA 94523

Meetings:

Third Friday Each Month
8:00 PM / 2000 hours
Our Savior's Lutheran Church
1035 Carol Lane, Lafayette, CA

1994 Club Officers**President:**

Dick Schulze, AA6DL
(510)935-5000

Vice President:

John Stuart, KM6QX
(510)283-2797

Secretary:

Richard Shappee, WA5HQJ
(510)682-1644

Treasurer:

Stan Christian, WU6P
(510)672-0330

Membership Chairman:

George Jones, KI6YK
(510)837-9316

Emergency Coordinator:

Bruce Smith, KC6JMN
(510)934-1735

Directors:

Tom Seabury, KC6SYG
(510)837-4433
Larry Gansz, KB2GV
(510)356-2411

MDARC-PACIFICON HOT LINE
(510)932-6125

**Contra Costa County
ARES/RACES Nets**

Thursdays, 1900 Hours

Central County - 145.680/s

Jim Brunk, N6BHX
(510)372-8248

East County - 146.535/s

Jim Tittle, KC6SOE
(510)432-3220

South County - 146.355/(100 pl)

George Jones, KI6YK
(510)837-9316

West County - 145.110/-

Rachel Lewellen, KB6LHR
(510)233-5034

QSY to 147.735/- at 1920 Hours
Meeting of all County
ARES/RACES Nets

**The Rocky Ridge Repeater
Group**

P.O. Box 23222
Pleasant Hill, CA 94523

Next Meeting:

Third Wednesday Of Odd Months
8:00 PM / 2000 hours
Stonebrook Convalescent Center
Concord Blvd., Concord, CA

Chairman:

Dwane McGlothlin, N6SPX
(510)798-2868

Technical Chairman:

Mike Burke, KB6RMT
(510)682-7296

RRRG Repeaters

147.060/(100 pl)
224.780/-(077 pl)
441.325/(100 pl)
ATV - Input - 1253.250
Output - 427.250 (Cable CH 58)

RRRG Nets

Phone Net - Thursdays
1930 Hours, 147.060/(100 pl)
Net Control: Jay Caldis, KT6Y
ATV Net - Thursdays
2000 Hours, Net Control:
Mike Burke, KB6RMT,
Alt.: Don Smith, W6NKF,
Youth Net - Thursdays
1900 Hours, 147.060/(100pl), Net Control rotates

**Contra Costa County
Emergency Services HF Net**

First Thursday following
first Wednesday,
2000 Hours, 3.895 MHz
Net Control:
Hank Berriman, W6ZHY, AEC

Carrier

Editor: Greydon H. Hicks, KC6SLE
4517 Shellflower Ct., Concord 94518
(510)798-1251
Folding: Jay Caldis, KT6Y
Mailing: Walt Ebbett, KB6QIB
Labels: George Jones, KI6YK

Sheriff's Amateur Radio Communications Team

Clay Yale, N6YBQ
(510)228-8223

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). This publication is open to all members of MDARC and it is the policy of this Editor to publish all articles submitted by the membership as long as such articles are not obscene, pertain to Amateur Radio, are of interest to the members of MDARC and space is available. Articles are due by the first of each month and are accepted on a first come, first in basis. Articles should be submitted by packet, KC6SLE @ KB6AML.#NOCAL.USA.NA or packet mailbox, KC6SLE-1 or by modem to the Doug Smith's No Name Yet bulletin board, File area #23, at (510) 827-5714 or delivered to the Editor in ASCII format on either 5.25" or 3.5" computer disk. The standard font is Arial 9 point. The Editor's address can be found in the Carrier or MDARC Membership Directory. Articles published in the Carrier may be reproduced provided that such reproduction credits both MDARC and the author of the article. Copyrighted articles will not be accepted for publication in the Carrier.

CALENDAR OF EVENTS		
Livermore Swapmeet	Las Positas College Livermore	First Sunday Each Month All Year, 7:00 AM to Noon
RACES Monthly Meeting	State OEC, Civic Dr. Pleasant Hill	First Wednesday Every Month, 7:30 PM
MDARC General Membership Meeting	Our Savior's Lutheran Church 1035 Carol Ln., Lafayette	8:00 PM Friday October 14, 1994
Deadline for Carrier Articles	NA	November 1, 1994
MDARC T-Hunt	Location TBA	Canceled until further notice
Concord VEC Exams Gene, WW6H	Consolidated Fire Training Center 2945 Treat Blvd., Concord	February 05, 1995 1:00 PM
Fairfield HAM Exams Dick, AB6EY, 916-791-0268	Fairfield Senior Center 1200 Civic Drive, Fairfield	Last Saturday of each month 9:00 AM to noon
RRRG General Membership Meeting	Stonebrook Convalescent Center 4367 Concord Blvd., Concord	Wednesday, November 16, 1994, 8:00 PM
PACIFICON '94	Concord Hilton	October 21, 22, 23, 1994

The Carrier
a newsletter of the
Mount Diablo Amateur Radio Club
P.O. Box 23222
Pleasant Hill, CA 94523



FIRST CLASS MAIL



NEXT MDARC MEETING IS October 14, 1994!
PACIFICON '94 IS OCTOBER 21, 22, & 23, 1994
NEXT RRRG MEETING IS November 14, 1994!